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SOURCE GOST 3275-46,

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USSR STANDARD FOR NK-30 NONFREEZING LUBRICANT "UM" (GOST 3275-46)

(Petroleum Industry B 24)

1. This standard deals with the consistent lubricant intended for lubri-
cating the parts of aircraft control systems, and friction units operating in
the temperature range from -60 to + 05° C.

2. Composition of the lubricant

Percent by Wt

a. Calcium-sodium soap by hydrogenated vegetable
fat (OST NKPP 439) or a mixture of 60 parts of hydrogenated
vegetable fat (OST NKPP 439) and 40 parts of commercial-
grade animal fat (GOST 1045-41)

8 ± 2

b. Lead acetate

0.15

c. Vaseline distillate of viscosity 1.4-1.7
(Engler) at 50° C with a freezing point not higher than
-60° C

Remainder

3. The lubricant must fulfill the following physico-
chemical requirements:

a. Appearance and properties: uniform, slightly granular paste,
light yellow to dark brown in color.

b. The lubricant, applied in a layer about 1 mm thick on a glass
plate, upon inspection over a light source, must be uniform and without clots.

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<u>Physicochemical Properties</u>	<u>Values</u>	<u>Test Method</u>
1. Penetration (Richardson) at 25° C within	290-360	OST NKTP 7872/2292, M.I. 6a-36
2. Drop point (Ubbelohde) not lower than	90° C	OST NKTP 7872/2292, M.I. 7zh-36
3. Content of free alkali in terms of NaOH, not more than	0.1%	OST NKTP 7872/2292, M.I. 25k-37
4. Corrosion test on steel, copper, and aluminum plates, 48 hr at 60° C	Passes	GOST 1037-41
5. Mechanical impurities, not more than	0.03%	OST NKTP 7872/2292, M.I. 191-37
6. Ash content, not more than	2.2%	OST NKTP 7872/2292, M.I. 26v-36
7. Water content, not more than	0.3%	GOST 1044-41

NOTE: 1. Corrosion test is carried out: (1) on steel plates, Types 40, 45, 50, and those similar to them (GOST B-1050-41); (2) on copper plates, Types M0, M1, and those similar to them (GOST B-1019-41); and (3) on aluminum plates, Types AL 12 and those similar to them (GOST 2685-44).

11. No content of sand or other abrasive material is permitted.

4. Packing, labeling, storage, transport, and inspection are carried out in accordance with GOST 1510-45.

5. Selection of samples of lubricant is carried out in accordance with GOST 2517-44. One kg of lubricant is set aside for a control sample.

Proposed by Ministry of Petroleum Industry of South and West Regions of USSR.

Approved by All-Union Committee on Standards 21 August 1946.

Effective 1 November 1946.

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